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AUTH.NAME AUTHOR AFFILIATION
TUCKER,H.B. Duke Power Co.
RECIP.NAME RECIPIENT AFFILIATION
DENTON,H.R. Office of Nuclear Reactor Regulation, Director
STOLZ,J.F. Operating Reactors Branch 4

SUBJECT: Submits info re main steam line piping analysis performed as result of incident in RO-287/81-03 Revision 1 dtd 810610, in response to request,Max allowable stress determined to be 17,500 psi.

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November 1, 1982

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

ATtention: Mr. John F. Stolz, Chief
Operating Reactors Branch No. 4

Subject: Oconee Nuclear Station
Docket No. 50-287

Dear Sir:

In response to a telephonic request for information from Keith R. Wichman (ORAB), the following information is provided regarding the main steam line piping analysis performed as a result of an incident described in Reportable Occurrence Report RO-287/81-03 Revision 1 dated June 10, 1981. The information is provided to aid Mr. Wichman in his generic study of water filled main steam line piping. The information supplied is for Oconee Unit 3 only.

Analysis Method: A computer analysis was performed applying spring constants and pre-loads equal to the cold settings for spring supports.

Reference Code: B31.1 (1967)

Pressure/Temperature: 1050 psi/630°F

Maximum Stress/Location (Outside Containment as Requested):
11042 psi at Turbine Building Wall on "A" Side

Pipe Material at Maximum Stress Location: ASTM A-155, Class 1
GR KC 70, 34 inch ID, 1.164 inch Minimum Wall

Allowable Stress: 17500 psi

Very truly yours,

H.B. Tucker/JFN

Hal B. Tucker

JFN/php

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